

ABSTRACT OF THE DISCLOSURE

A cemented carbide blank suitable for fabrication by electric discharge machining that includes a carbide phase that includes tungsten carbide (and optionally vanadium carbide) present in an amount equal to between about 77.7 weight percent and about 93.6 weight percent of the cemented carbide blank. The cemented carbide blank further includes chromium present in an amount equal to between about 0.3 weight percent and about 1.5 weight percent of the cemented carbide blank, cobalt present in an amount equal to between about 8 weight percent and about 17 weight percent of the cemented carbide blank, nickel optionally present in an amount equal to 0 weight percent up to about 5 weight percent of the cemented carbide blank, and molybdenum present in an amount equal to between about 0.1 weight percent and about 1.0 weight percent of the cemented carbide blank. The cemented carbide blank having a magnetic saturation as measured according to ASTM B886-03 ranging between about $151 \times 10^{-6} \text{ T m}^3 / \text{kilogram cobalt}$ and about $182 \times 10^{-6} \text{ T m}^3 / \text{kilogram cobalt}$.